*1. Given a function with one vector parameter ages. How should the parameter be defined if ages may be very large, and the function will not modify the parameter?*

**a. Constant, and pass by reference**

b. Constant, and pass by value

c. Not constant, and pass by reference

d. Not constant, and pass by value

‌

*2. The numNegatives variable counts the number of negative values in the vector userVals. What should numNegatives be initialized to?*

vector userVals(20);

unsigned int i;

numNegatives = XXX;

for (i = 0; i < userValues.size(); ++i) {

if (userValues.at(i) < 0) {

numNegatives = numNegatives + 1;

}

}

‌a. No initialization needed

**b. 0**

c. -1

d. userVals.at(0)

‌

*3. Which expression for XXX outputs "Modern era" for any year 1980 and later?*

if (year < 2000) {

// Output "Past"

} else if (XXX) {

// Output "Modern era"

}

‌

a. year > 1980

‌b. year >= 1980

c. year >= 2000

‌**d. (No such expression exists)**

‌

*4. What is output?*

#include <iostream>

#include <fstream>

using namespace std;

int main() {

ofstream outFS;

ifstream inFS;

string str;

outFS.open("myfile.txt");

outFS << "This is a test data.";

if (!outFS.is\_open()) {

cout << "Could not open file myoutfile.txt." << endl;

return 1;

}

outFS.close();

inFS.open("myfile.txt");

cout << "Reading from file..." << endl;

inFS >> str;

cout << str;

return 0;

}

**Reading from file...**

**This**

‌

*5. Given integer vector x has elements 5, 10, 15, 20. What is the output?*

int i;

for (i = 0; i < x.size(); ++i) {

cout << x.at(i) + x.at(i + 1);

}

**Error //"out of range"**

‌

*6. Which assigns the vector's first element with 99?*

vector myVector(4);

‌a. myVector.at() = 99;

‌b. myVector.at(-1) = 99;

‌**c. myVector.at(0) = 99;**

‌d. myVector.at(1) = 99;

‌

*7. Which XXX generates "Adam is 30 years old." as the output?*

#include <iostream>

using namespace std;

int main() {

string name = "Adam";

int age = 30;

XXX

return 0;

}

‌

**a. cout << name << " is " << age << " years old.";**

b. cout << "name" << " is " << "age" << " years old .";

‌c. cout >> name >> " is " >> age >> " years old .";

d. cout >> "name" >> " is " >> "age" >> " years old .";

‌

*8. Which declares two related integer vectors named personName and personAge each with 50 elements?*

‌a. vector personName, personAge;

‌b. vector personName, personAge = 50;

‌c. vector personName = 50; vector personAge = 50;

‌d. vector personName(50); vector personAge(50);

‌**Answer: vector<int>personName(50); vector<int>personAge(50);**

‌

*9. Given string s is "Sunday", what is the ending value of char myChar?*

myChar = s.at(s.size() - 1);

‌a. a

‌**b. y**

‌c. "

‌d. No such character

‌

*10. myString is declared as a string and is the only variable declared. Which is a valid assignment?*

‌a. myString = 'Hello';

‌b. myString = Hey;

‌**c. myString = "H";**

‌d. myString = [Hoy];

‌

*11. What value of x outputs "Junior"?*

if (x < 56) {

// Output "Sophomore"

} else if (x > 56) {

// Output "Senior"

} else {

// Output "Junior"

}

‌**a. Value 56**

‌b. Values 57 or larger

‌c. Values 55 or 57

‌d. No such value

‌

*12. The ostringstream member function \_\_ returns the contents of an ostringstream buffer as a string.*

‌**a. str()**

‌b. setw()

‌c. setfill()

‌d. fixed()

‌

*13. What is the ending value of numItems if myChar = 'X'?*

switch (myChar) {

case 'W':

numItems = 1;

case 'X':

numItems = 2;

case 'Y':

numItems = 3;

case 'Z':

numItems = 4;

}

**2**

‌

*14. Which XXX will search the input name in the GuestList.txt file?*

#include <iostream>

#include <fstream>

using namespace std;

int main() {

ifstream inFS;

string userName;

string listName;

int flag = 0;

inFS.open("GuestList.txt");

if (!inFS.is\_open()) {

cout << "Could not open file numFile.txt." << endl;

return 1;

}

cout << "Enter guest name: ";

cin >> userName;

while (!inFS.eof()) {

inFS >> listName;

XXX {

if(listName == userName) {

flag = 1;

}

}

}

if(flag == 1){

cout << userName << " is in the guest list" << endl;

} else {

cout << userName << " not in the guest list" << endl;

}

inFS.close();

return 0;

}

‌A. if(!inFS.fail)

‌B. if(inFS.fail)

‌C. if(inFS.fail())

‌**D. if(!inFS.fail())**

‌

*15.**What is output?*

#include <iostream>

#include <ios>

#include <iomanip>

using namespace std;

int main() {

int num = 5;

for(int i = 0; i < 3; i++) {

cout << num << setw(5) << setfill('\*') << num << endl;

num = num \* 5;

}

return 0;

}

**5\*\*\*\*5**

**25\*\*\*25**

**125\*\*125**

‌

*16. What is y after executing the statements?*

x = 5;

y = x + 1;

y = y \* 2;

**y = 12**

‌

*17. Which value of x results in short circuit evaluation, causing y < 4 to not be evaluated?(x >= 7) && (y < 4)?*

‌**Answer: x < 7**

‌

*18. What is the output?*

int a = 10;

do {

cout << a << " ";

a = a + 1;

} while (a < 15);

**10 11 12 13 14 15**

‌

*19. What is the output, if the input is 3 2 1 0?*

cin >> x;

while (x > 0) {

cout << 2 \* x << " ";

}

**6 4 2**

‌

*20. What is the ending value of z?*

x = 0;

y = 3;

z = pow(x + 2, y);

**z = 8**

‌

*21. Both must be true for a person to ride:*

‌*(1) At least 5 years old, (2) Taller than 36 inches.*

‌*Which expression evaluates to true if a person can ride?*

**yearold >= 5 && height > 36;**